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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/944,694	08/31/2001	Matthew Gast	NC30561	2124	
7590 05/18/2007 Brian T. Rivers, Esq.			EXAMINER		
Nokia, Inc. Mail drop 1-4-755			HA, LEYNNA A		
6000 Connection Dr.			ART UNIT	PAPER NUMBER	
Irving, TX 75039			2135	,	
	•	•	MAIL DATE	DELIVERY MODE	
			05/18/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application	Application No. Applicant(s)						
Office Action Summary		09/944,694		GAST, MATTHEW					
		Examiner		Art Unit					
		LEYNNA T	Г. НА	2135					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status									
2a) ⊠	Responsive to communication(s) filed on <u>28 f</u> This action is FINAL . 2b) This Since this application is in condition for allowed closed in accordance with the practice under	is action is n ance except	on-final. for formal matters, pro		e merits is				
Disposition of Claims									
5)□ 6)⊠ 7)□ 8)□ Applicati 9)□ 10)□	Claim(s) 1-18 is/are pending in the application 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) 1-18 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/ on Papers The specification is objected to by the Examinating The drawing(s) filed on is/are: a) according to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examination of the correct the oath or declaration is objected to by the Examination of the correct the oath or declaration is objected to by the Examination of the correct the oath or declaration is objected to by the Examination of the correct the oath or declaration is objected to by the Examination of the oath or declaration is objected to by the Examination of the oath or declaration is objected to by the Examination of the oath or declaration is objected to by the Examination of the oath or declaration is objected to by the Examination of the oath or declaration is objected to by the Examination of the oath or declaration is objected to by the Examination of the oath or declaration is objected to by the Examination of the oath or declaration is objected to by the Examination of the oath or declaration is objected to by the Examination of the oath or declaration is objected to by the Examination of the oath or declaration is objected to by the Examination of the oath or declaration is objected to by the Examination of the oath or declaration is objected to by the Examination of the oath or declaration is objected to by the Examination of the oath or declaration is objected to by the Examination of the oath or declaration is objected to by the Examination of the oath or declaration of the oath or declaration is objected to by the Examination of the oath or declaration of the oath or declaration of the oath or declaration of the oath of the oath or declaration of the oath or declar	or election refer. cepted or b) detection is require	equirement. objected to by the leading abeging the dead in abeyance. See the difference of the drawing(s) is objected if the drawing(s) is objected.	e 37 CFR 1.85(a). jected to. See 37 Cf					
Priority u	ınder 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some color None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
2) Notice 3) Information	t(s) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) tr No(s)/Mail Date		4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate					

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DETAILED ACTION

- 1. Claims 1-18 are pending.
- 2. This is a Non-Final rejection.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 3 and 12-18 are rejected under 35 U.S.C. 102(e) as being anticipated by Chang, et al. (US 6,963,972).

As per claim 3:

Chang, et al. discloses a system for providing network security, comprising:

means for receiving a request to perform a cryptographic operation; (col.6, lines 65-67 and col.7, lines 8-12)

means for returning a response to the cryptographic operation request; (col.6, lines 40-45 and col.11, lines 55-63)

means for translating a first plurality of cleartext data into a second plurality of cleartext data in accordance with at least one translation rule; and (col.4, lines 13-19)

and col.6, lines 30-33; Chang discloses transcoding refers to the technique of transforming multimedia content from a first original format into a second format (col.1, lines 16-20). The terms translation, content repurposing, content adaptation, reformatting, data transformation, media conversion, format conversion, and filtering are often used synonymously for transcoding (col.2, lines 23-27). The claimed translating a first cleartext data into a second plurality of cleartext data is where Chang transcode or convert an original format into a second format.)

at least one module for performing said cryptographic operations, said cryptographic operations including obtaining the first plurality of cleartext data based upon a first plurality of encrypted data (col.4, lines 9 and 20-22 and col.10, lines 52-62), and encrypting the second plurality of cleartext data to obtain a second plurality of encrypted data. (col.7, lines 50-58 and col.10, lines 1-12)

As per claim 12: See col.7, lines 34-35; discussing at least one cryptographic module is a cryptographically strong pseudorandom number generator.

As per claim 13: See col.6, lines 40-67; discussing the cryptographic operations are performed using cryptographic acceleration hardware.

As per claim 14: See col.6, lines 40-67; discussing the cryptographic acceleration hardware includes a plurality of individual hardware acceleration units.

As per claim 15: See col.6, lines 65-67; discussing at least one individual hardware acceleration unit is dedicated to one function.

As per claim 16: See col.3, lines 21-28; discussing the cryptographic acceleration

hardware is updateable by loading at least one cryptographically signed instruction.

As per claim 17: See col.9, lines 59-67; discussing the cryptographic acceleration hardware is tamper-resistant.

As per claim 18: See col.9, lines 59-67; discussing the cryptographic acceleration hardware is tamper-evident.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 1 and 4-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Grabelsky, et al. (US 7,032,242), and further in view of Zarom (US 6,356,529).

As per claim 1:

Grabelsky, et al. discloses a method for providing network security, comprising the steps of:

receiving a plurality of network protocol packets, wherein a network protocol packet includes a network protocol header (col.20, lines 49-50) and a plurality of network protocol data, and wherein the network protocol data include a first

cryptographic protocol header (col.21, lines 17-21) and a first plurality of encrypted data, at least a portion of at least some of the network protocol packets being configured in accordance with a transport layer protocol or a network layer protocol; (col.11, lines 55-56)

determining a first plurality of cryptographic protocol rules associated with the network protocol data; (col.21, lines 4-13 and col.22, lines 63-55)

establishing a cryptographic session, if required by said first cryptographic rules; (col.24, lines 34-40)

applying the first plurality of cryptographic protocol rules to the first encrypted data to obtain a first plurality of cleartext data; (col.23, lines 49-62; the claimed applying a cryptographic protocol rules to the encrypted data is logically to decrypt the received encrypted data in order to obtain the cleartext data as claimed. Grabelsky discloses for inbound packets at the receiving endpoint where the IP packet includes an ESP header and determines the appropriate SA. The SA indicates what encryption techniques should be used for the decryption whereby decryption involves using a key, decryption technique, and cryptographic synchronization data if any, is indicated by the SA (col.23, lines 55-61). The first plurality of cleartext data can broadly be given as decryption of the inbound data. Thus, Grabelsky reads on the claimed invention.)

ftranslating the first plurality of cleartext data into a second plurality of cleartext data in accordance with at least one translation rule]

encrypting the second plurality of cleartext data in accordance with at least one rule associated with a second cryptographic protocol, resulting in a second plurality of encrypted data. (col.23, lines 27-32; The second plurality of cleartext data can broadly be given as outbound data, where sending data to another endpoint obviously needs protection. Hence, Grabelsky discloses the sending endpoint encapsulates into the ESP payload data-field and original upper layer protocol information for the transport mode using the selected encryption technique. Grabelsky reads on the encrypting with the rule associated with a cryptographic protocol.)

However, Grabelsky did not provide translating the first plurality of cleartext data into a second plurality of cleartext data in accordance with at least one translation rule.

Zarom discloses a method and system for translating data transmitted according to the WAP network protocols in the lower protocol layers rather than requiring the packet to be transformed into higher layers (col.4, lines 52-64). Zarom discloses there is an increasing demand for different types of communication services through the increasing popular portable electronic devices (col.1, lines 14-22) that there is a need to extend the power and efficacy of operation of portable, wireless electronic communication devices. WAP (wireless application protocol) has been developed and designed to efficiently provide both multimedia and telephony services to wireless communication devices (col.1, lines 24-33) and provides the required adaptations and modifications to such software and data transmission protocols. Such adaptations and modifications includes a translation system or gateway to translate HTML to form WML

(col.1, lines 54-62). Zarom further suggests that current available translators in the art require the data to be translated only at the highest (application) level of the network protocols and involves two separate sessions are operated with significant delays in each session for the translation process (col.6, lines 28-32), where the proxy server waits for the translation process to be completed for each of original server and wireless communication device client before the translated data can be passed to the other session (col.2, lines 20-34 and col.3, lines 15-17). Thus, this method significantly decreases the efficiency of these background art translators and their translation process (col.2, lines 37-39 and col.6, lines 28-32). However, Zarom' solution would be able to pass translated information as soon as only a portion is translated according to rules (col.3, lines 8-15 and col.7, lines 12-30) and the translation process is performed entirely at the IP level rather than at the application level (col.6, lines 21-28). Zarom teaches data must be converted through all of the network layers before translation and must be reconverted to a format which is suitable for transmission through the physical network media (col.2, lines 23-28). Thus, is more efficient which is able to translate packets more rapidly from protocol type to the other than background art translators (col.2, lines 40-54 and col.6, lines 32-34). Zarom discloses the translator receiving either regular IP packets and WAP packets or other wireless network packets (col.7, lines 32-34). Zarom shows the examples of cleartext data into another cleartext data or (language) format translated to another format (col.3, lines 26-37): HTML to WML (col.1, lines 57-58), TCP packets to WTP packets (col.7, lines 58-60), WAP to TCP packets (col.9, lines 40-50), IP packet to a WAP network packet (col.6, lines 55-58).

Therefore, it would have been obvious for a person of ordinary skills in the art at the time of the invention was made to combine the teaching of Grabelsky with the teaching of translating the first plurality of cleartext data into a second plurality of cleartext data in accordance with at least one translation rule as taught by Zarom because translating at IP level is faster and efficient in order to effectively to communicate deliver content from the Internet (col.1, lines 50-63 and col.6, lines 21-35).

As per claim 2:

Grabelsky discloses a system for providing network security, comprising:

an input module for receiving a plurality of network protocol packets (col.20, lines 49-50), at least a portion of at least some of the network protocol packets being configured in accordance with a transport protocol or a network layer protocol; (col.11, lines 55-56 and col.21, lines 17-21)

(a translation module for translating a first plurality of data into a second plurality of data)

an output module; and (col.23, lines 21-22)

a cryptographic module responsive to the input module and the output module for performing cryptographic operations. (col.23, lines 21-62)

However, Grabelsky did not provide a translation module for translating a first plurality of data into a second plurality of data.

Zarom discloses a method and system for translating data transmitted according to the WAP network protocols in the lower protocol layers rather than requiring the packet to be transformed into higher layers (col.4, lines 52-64). Zarom discloses there

is an increasing demand for different types of communication services through the increasing popular portable electronic devices (col.1, lines 14-22) that there is a need to extend the power and efficacy of operation of portable, wireless electronic communication devices. WAP (wireless application protocol) has been developed and designed to efficiently provide both multimedia and telephony services to wireless communication devices (col.1, lines 24-33) and provides the required adaptations and modifications to such software and data transmission protocols. Such adaptations and modifications includes a translation system or gateway to translate HTML to form WML (col.1, lines 54-62). Zarom further suggests that current available translators in the art require the data to be translated only at the highest (application) level of the network protocols and involves two separate sessions are operated with significant delays in each session for the translation process (col.6, lines 28-32), where the proxy server waits for the translation process to be completed for each of original server and wireless communication device client before the translated data can be passed to the other session (col.2, lines 20-34 and col.3, lines 15-17). Thus, this method significantly decreases the efficiency of these background art translators and their translation process (col.2, lines 37-39 and col.6, lines 28-32). However, Zarom's solution would be able to pass translated information as soon as only a portion is translated according to rules (col.3, lines 8-15 and col.7, lines 12-30) and the translation process is performed entirely at the IP level rather than at the application level (col.6, lines 21-28). Zarom teaches data must be converted through all of the network layers before translation and must be reconverted to a format which is suitable for transmission through the physical

network media (col.2, lines 23-28). Thus, is more efficient which is able to translate packets more rapidly from protocol type to the other than background art translators (col.2, lines 40-54 and col.6, lines 32-34). Zarom discloses the translator receiving either regular IP packets and WAP packets or other wireless network packets (col.7, lines 32-34). Zarom shows the examples of cleartext data into another cleartext data or (language) format translated to another format (col.3, lines 26-37): HTML to WML (col.1, lines 57-58), TCP packets to WTP packets (col.7, lines 58-60), WAP to TCP packets (col.9, lines 40-50), IP packet to a WAP network packet (col.6, lines 55-58).

Therefore, it would have been obvious for a person of ordinary skills in the art at the time of the invention was made to combine the teaching of Grabelsky with the teaching of translating the first plurality of cleartext data into a second plurality of cleartext data in accordance with at least one translation rule as taught by Zarom because translating at IP level is faster and efficient in order to effectively to communicate deliver content from the Internet (col.1, lines 50-63 and col.6, lines 21-35).

As per claim 4: See Zarom on col.3, lines 8-15 and col.7, lines 12-30; discussing at least one translation rule is predetermined.

As per claim 5: See Zarom on col.7, lines 12-30 and 55-67; discussing at least one translation rule is determined dynamically.

As per claim 6: See Grabelsky on col.7, lines 10-12 and Zarom on col.3, lines 5-6; discussing the first cryptographic protocol is WTLS.

As per claim 7: See Zarom on col.5, lines 37-46; discussing the first plurality of encrypted data is associated with WML.

As per claim 8: See Grabelsky on col.7, lines 10-12 and Zarom on col.3, lines 57-58; discussing second plurality of encrypted data is associated with HTML.

As per claim 9: See Zarom on col.8, lines 7-11; discussing the second cryptographic protocol is SSL over HTTP.

As per claim 10: See Grabelsky on col.22, lines 62-65 and col.23, lines 50-62; discussing the first cryptographic protocol and the second cryptographic protocol are identical.

As per claim 11: See Grabelsky on col.22, lines 62-65 and col.23, lines 50-62; discussing the first plurality of encrypted data and the second plurality of encrypted data conform to different revisions of a specification for the same cryptographic protocol.

Response to Arguments

5. Applicant's arguments, filed 2/28/2007, with respect to the rejection(s) of claim(s) 3 and 12-18 under Binding, et al. have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Chang, et al.

Claims 3 and 12-18 are now rejected with new grounds of rejection.

Claims 1, 2, and 4-11 remains rejected over the Grabelsky and Zarom combination.

Regarding the argument on pg.6, where Grabelsky does not teach or suggest translating a first plurality of cleartext data into a second plurality of cleartext data.

Although Grabelsky teaches the header-field includes a type of data contained in the payload data-field (col.23, lines 11-17), but did not clearly point out this the translation of the cleartext data into another form. Thus, Zarom is brought forth to teach this limitation.

The argument regarding the router of Grabelsky (pg.6-7) where the router does not modify contents of received, secured (IPSEC) packets since to do so would compromise the security of those packets is traversed. Grabelsky mentions the well known in the art the use of a router when Internet Protocol security is being used and the disadvantages of this technique. Thus, Grabelsky overcomes the problems associated with network address translation (col.4, lines 34-col.5, lines 27) and rather than using NAT devices, DNAT can be used with IPsec to overcome the problems with NAT devices known in the art (col.25, lines 49-61). Therefore, Grabelsky's invention teaches the claimed at least a portion of at least some of the network protocol packets being configured in accordance with a transport layer protocol or a network layer protocol, while establishing secure connection to an external network device using IPsec.

Zarom teaches various examples of cleartext data into another cleartext data or (language) format translated to another format (col.3, lines 26-37): HTML to WML (col.1, lines 57-58), TCP packets to WTP packets (col.7, lines 58-60), WAP to TCP packets (col.9, lines 40-50), IP packet to a WAP network packet (col.6, lines 55-58). Zarom

teaches it would have been obvious for a person of ordinary skills in the art to combine the teaching of Grabelsky with the teaching of translating the first plurality of cleartext data into a second plurality of cleartext data in accordance with at least one translation rule as taught by Zarom because the increasing demand for different types of communication services through the increasing popular portable electronic devices (col.1, lines 14-22) that there is a need to extend the power and efficacy of operation of portable, wireless electronic communication devices. Thus, Zarom teaches translating at IP level is faster and efficient in order to effectively to communicate deliver content from the Internet (col.1, lines 50-63 and col.6, lines 21-35).

As for dependent claims, they are also rejected by virtue of dependency.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LEYNNA T. HA whose telephone number is (571) 272-3851. The examiner can normally be reached on Monday - Thursday (7:00 - 5:00PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on (571) 272-3859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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LHa

HOSUK SONG PRIMARY EXAMINER